7. Honza

Program Name: Honza.java **Test Input File: honza.dat**

Honza is a time traveler. He has been visiting different psychics all throughout time and space, to answer one single question, when will he meet his soulmate! All the psychics give their answers in the form of minutes from the current date and time.

Honza's time machine uses the standard numeric settings for the current date and time in the form month/day/year, followed by time of day in military format, such as 4/7/2017 17:00, indicating 5 pm on April 7, 2017. It also can calculate the day of the week for the given date and reports it in abbreviated form, such as Mon for Monday, Tue for Tuesday, and so on with Wed, Thu, Fri, Sat, and Sun.

Given the time and date, and the number of minutes reported by the psychic, determine the day and time that Honza will need to set his time machine to be on time to meet his soul mate. Since he is a stickler for being on time, and firmly believes that "on time is late", he arrives five minutes early, just to be sure.

Honza's psychics will only report times in the future. However, if necessary, Honza can travel back in time in order to be "on time" to meet his soul mate.

For example, using the first data set shown below, Honza is told by the psychic at one minute before the stroke of midnight on December 31, 1999 that he will meet his soulmate in 7 minutes, therefore he decides to be five minutes early and arrives 2 minutes later Saturday, January 1, 2000, at 1 minute past midnight.

Input: The first line, N, will be the number of data sets to follow. Each data set will have three items: the date, the current time, and the number of minutes to wait, formatted as shown below. *Note: Honza may have to wait a very, very long time.*

Output: Display the 3 letter abbreviation of the day of the week, followed by the date in month/day/year format followed by the time in hour:minute format.

Sample Input:

```
3
12/31/1999 23:59 7
12/31/1993 00:32 9193343326845736209
2/1/523 02:59 1000000000
```

Sample Output:

```
Sat 1/1/2000 00:01
Sun 6/6/2951 11:46
Fri 5/31/2424 14:34
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